Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A polymer electrolyte composite membrane comprising a porous base material having fine pores which is fill with a polymer electrolyte comprising a hydrophobic moiety and a hydrophilic moiety.

wherein each phase of the hydrophobic and a hydrophilic moieties of the polymer electrolyte satisfy the following formula (1)

(wherein a represents the size (nm) of a hydrophobic domain, b represents the size (nm) of a hydrophilic domain, and d represents the average pore diameter (nm) of fine pores of the porous base material).

- 2. (Original) The polymer electrolyte composite membrane according to claim 1, wherein the formula (1) is $a\pm b \le d/2$.
- 3. (Original) The polymer electrolyte composite membrane according to claim 1, wherein a value of a+b is equal to or more than 3 nanometers.
- 4. (Original) The polymer electrolyte composite membrane according to claim 1, wherein a value of a±b is equal to or more than 10 nanometers.
- 5. (Currently Amended) The polymer electrolyte composite membrane according to claim 1 [[or 3]], wherein a value of a+b is equal to or less than 200 nanometers.
- 6. (Currently Amended) The polymer electrolyte composite membrane according to claim 1 [[or 4]], wherein a value of a+b is equal to or less than 100 nanometers.

- 7. (Currently Amended) The polymer electrolyte composite membrane according to claim 6 [[7]], wherein a hydrophilic repeating unit has an ion-exchange group.
- 8. (Currently Amended) The polymer electrolyte composite membrane according to claim 7 [[8]], wherein an ion-exchange group is cation-exchange group or anion-exchange group.
- 9. (Currently Amended) The polymer electrolyte composite membrane according to claim § [[9]], wherein a cation-exchange group is at least one selected from a group consisting of -SO₃H, -COOH, -PO(OH)₂, -POH(OH), -Ph(OH) (Ph represents a phenyl group).
- 10. (Original) The polymer electrolyte composite membrane according to claim 9, wherein an anion-exchange group is at least one selected from a group consisting of -NH₂, -NHR, -NRR', -NRR'R'' -NH₃+ (R represents an alkyl group, cycloalkyl group, aryl group, etc.).
- 11. (Original) A polymer electrolyte composite membrane having a continuous phase-separated structure in which a hydrophobic moiety and a hydrophilic moiety of polymer electrolyte are parallel to a membrane thickness direction.
- 12. (Original) Method for manufacturing a polymer electrolyte membrane by compositing a porous base material and a polymer electrolyte comprising a hydrophobic moiety and a hydrophilic moiety, and each phase of the hydrophobic and the hydrophilic moieties of the polymer electrolyte satisfy the following formula (1)

$a\pm b\leq d$ (1)

(wherein a represents the size (nanometer) of a hydrophobic domain, b represents the size (nanometer) of a hydrophilic domain, and d represents the average pore diameter (nanometer) of fine pores of the porous base material).

- 13. (Currently Amended) The method for manufacturing a polymer electrolyte membrane according to claim 12 [[13]], wherein the method comprising of dissolving a polymer electrolyte in solvent, impregnating a porous base material with the solution, taking out the porous base material, drying solvent, and then compositing the porous base material and the polymer electrolyte.
- 14. (Original) The method for manufacturing a polymer electrolyte membrane according to claim 13, wherein the method comprising of dissolving a polymer electrolyte in solvent, applying the solution on a porous base material, drying solvent, and then compositing the porous base material and the polymer electrolyte.
- 15. (Original) The method for manufacturing a polymer electrolyte membrane according to claim 13, wherein the method comprising of dissolving a polymer electrolyte in solvent, contacting a porous base material with the solution under reduced pressure, then returning the pressure to a normal pressure, drying solvent, and then compositing the porous base material and the polymer electrolyte.
- 16. (Original) A fuel cell comprising the polymer electrolyte composite membrane according to claim 1.